

ABSTRACT OF THE DISCLOSURE

A first comparator makes a comparison between potentials on paired signal lines connected with the secondary winding of a transformer to produce a signal indicating whether data of a first value has been received or not. A second comparator makes a comparison between potentials on the paired signal lines to output a signal indicating whether data of a second value has been received or not. A first detector samples the output signal of the first comparator at regular sampling intervals to produce a signal indicating whether an output signal indicating the reception of data of the first value has been produced from the first comparator. A second detector samples the output signal of the second comparator at the regular sampling intervals to produce a signal indicating whether an output signal indicating the reception of data of the second value has been produced from the second comparator.